

Title (en)  
AIRCRAFT ENGINE OPERABILITY

Title (de)  
BETRIEB EINES FLUGZEUGMOTORS

Title (fr)  
EXPLOITABILITÉ DE MOTEUR D'AÉRONEF

Publication  
**EP 3591206 A1 20200108 (EN)**

Application  
**EP 19182278 A 20190625**

Priority  
• GB 201810885 A 20180703  
• GB 201813950 A 20180828

Abstract (en)  
A gas turbine engine has a cycle operability parameter  $\beta$  in a defined range to achieve improved over all performance, taking into account fan operability and/or bird strike requirements as well as engine efficiency. The defined range of cycle operability parameter  $\beta$  may be particularly beneficial for gas turbine engines in which the fan is driven by a turbine through a gearbox.

IPC 8 full level  
**F02K 3/06** (2006.01)

CPC (source: CN EP US)  
**B64D 27/14** (2013.01 - CN); **F02C 3/073** (2013.01 - US); **F02C 7/36** (2013.01 - US); **F02K 3/06** (2013.01 - EP); **F05D 2240/30** (2013.01 - US); **F05D 2260/40311** (2013.01 - EP); **F05D 2270/051** (2013.01 - EP); **F05D 2270/306** (2013.01 - EP); **Y02T 50/60** (2013.01 - EP)

Citation (search report)  
• [A] US 2016215729 A1 20160728 - SABNIS JAYANT [US]  
• [XP] EP 3372808 A2 20180912 - ROLLS ROYCE PLC [GB]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3591206 A1 20200108**; CN 110667861 A 20200110; GB 201810885 D0 20180815; GB 201813950 D0 20181010; US 11181042 B2 20211123; US 2020011238 A1 20200109

DOCDB simple family (application)  
**EP 19182278 A 20190625**; CN 201910589096 A 20190702; GB 201810885 A 20180703; GB 201813950 A 20180828; US 201916411347 A 20190514